

BNL Static Magnetic Fields Exposure Form Part A: Source Hazard Assessment Record

USE THIS FORM TO DOCUMENT MAGNETIC FIELD SOURCES THAT ARE AT OR EXCEED 0.5mT (5 GAUSS)

Line Managers or Principal Investigators, and ES&H Coordinators complete a separate form for each Static Magnetic Field source. This assessment applies to occupational exposures only. This assessment does not apply to unmodified consumer products (phones, computer terminals, magnetic stirring devices, refrigerator magnets, etc.) that are used as intended.

I. Source Identification				
Department:	Building:	Room or Area (location	on of source):	
Identifier/ Name of Source:		<u> </u>		
Status of Source Usage (check all that apply): [] In use on frequent basis [] Planned use in the near future [] Possible future use [] No planned [] Intermittent use [] One-time use [] Other:				
Check or Describe Use or Process: [] permanent magnet [] medical device [] Magnetic Resonance Imaging equipment [] Nuclear Magnetic Resonance equipment [] super-conducting coils [] magnetometers [] accelerator magnets [] detector magnets [] ion pumps [] electron microscope [] beam transport magnet [] electromagnet lifting device [] other (specify):				
II. Exposure Summary [Complete Part B: Field	Strength Measurement Record of			
Target Body Area		BNL Exposure I (mT)	Limits (G)	
Cardiac Pacemaker (Ceiling)		0.5	5	
Ferromagnetic Objects (Ceiling)*		60	600	
Torso or Head (Whole Body) (8-hour TWA)		60	600	
Extremities (Limbs) (8-hour TWA)		600	6,000	
Whole Body (Ceiling)	2	2,000 (2 T)	20,000	
Extremities (Limbs) (Ceiling)		5,000 (5 T)	50,000	
*Ferromagnetic Objects (Ceiling), including medical i required.	mplants and prostheses, may be	e affected by fields. Add	litional evaluation is	
Maximum Exposure Potential surveyed applicable to worker exposure:				
III. Exposure Hazard Evaluation [Check all that apply]				
1. [] Field Strength does not exceed 0.5mT (5 Gauss). Go to section V.				
 2a. [] Field strength is at or exceeds 0.5 mT (5 Gauss). No potential for individuals with medical electronic devices to be exposed above exposure limits. Explain in line 4. 2b. [] Field strength is at or exceeds 0.5 mT (5 Gauss). Individuals with medical electronic devices* may be affected. List users of cardiac pacemakers and other medical electronic devices in Part C: Employee Exposure Record. 				
3a. [] Field strength is at or exceeds 60 mT (600 G electronic devices* or ferromagnetic implants/pr 3b. [] Field strength is at or exceeds 60 mT (600 G devices* or ferromagnetic implants/prostheses** implants/prostheses in Part C: Employee Expost 3c. [] Field strength is at or exceeds BNL Exposur exposed above BNL Exposure Limit. Explain in 3d. [] Field strength is at or exceeds BNL Exposure exposed above BNL Exposure Limit. List the na	rauss) but for less than 8 hour rostheses** present. Fauss) but for less than 8 hour * may be affected. List users ure Record. The Limit (8-hr. TWA or ceiling to line 4. The Limit (8-hr. TWA or ceiling the Limit (8-hr. TWA or ceiling	rs TWA. No individuals wing the second of medical electronic dong limit). No potential for Employee Exposure R	s with medical ith medical electronic evices or ferromagnetic for individuals to be individuals to be	
* Medical electronic devices includes cardiac pacemakers, electronic inner ear prostheses, insulin pumps. ** Ferromagnetic implants/ prostheses includes angurysm clips, replacement hips				



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4. Describe job/task and potential for employee exposures (e.g., type of work performed around source, method of control, time spent in fields [hours/day] and method of determining exposure):					
5. Frequency of exposure (e.g., # days per year or month, # tests per year, in continuous use, etc.):					
IV. Precautions / Engineering & Administrative Conf	rols				
Precautions During Use (check all that apply): Signs Lights Barriers Restricted access Rotation of workers Working when de-energized Use of nonferromagnetic tools Physical indicator of fringe fields (e.g., use of string with paper clips or equivalent)	Other:				
Written Documentation: Experimental Review (ES&H Standard 1.3.5) Work Planning and Control (ES&H Standard 1.3.6) Written SOP (describe):					
Other workers who may require information/written documentation/training to enter this area:					
Checklist: Employee training required: Static Magnetic Fields Web Course Dept/Division-Specific Training Supervisors training required: Static Magnetic Fields Web Course Dept/Division-Specific Training Training required to be linked in Job Training Analysis for affected work groups / job classifications: yes no Medical approval required for individuals with medical electronic devices yes no Medical review required for individuals above 8-hour TWA or ceiling yes no					
V Initial Acceptant					
V. Initial Assessment Completed by:	Date:				
Completed by.	Date.				
Reviewed by ES&H Coordinator:	Date:				
Forward the original form to the Static Magnetic Fields Subject Matter Expert, copies to your ES&H Coordinator and Facility					
Support Representative. Retain a copy in your files. Update and resubmit the assessment when changes occur.					



BNL Static Magnetic Fields Exposure Form Part B: Field Strength Measurement Record

Field Strength Measurement Record						
DATE:		SURVEYOR:				
I. AREA INFORMATION						
DEPT.:		BLDG.:		ROOM:		
SOURCE:						
CONTROLS: _	BARRIERS SIG	SNS USE NON-FER	ROMAGNETIC TO	OOLS	_ OTHER:	
II. SURVEY INSTR	UMENT INFORMATION					
INSTRUMENT:		MODEL:		SEDIVI #-		
		MODEL: SERIAL#:				
FACTORY CALIBRATION DA	ΓE:	FUNCTIONAL CHECK (Test of meter response to known magnetic source) DATE:				
III. SAMPLING INF	ORMATION & RESULTS					
HAZARD: STATIC	MAGNETIC FIELDS	UNITS: mGauss _	Gauss _	mTesla	Tesla	Amp/meter
INDICATE WHERE READ (E.G., PICTURE, PLAN V	DINGS WERE TAKEN IN THE TABLE E IEW WITH EXPOSURE LEVELS INDIC	BELOW AND ON THE SKETCH (GRID) ON CATED)	I NEXT PAGE. EQUIVA	LENT METHODS OF	DOCUMENTATION MA	AY BE ATTACHED
DISTANCE	100		5545046			
FROM SOURCE	LOC	CATION	READING	COMMENTS		



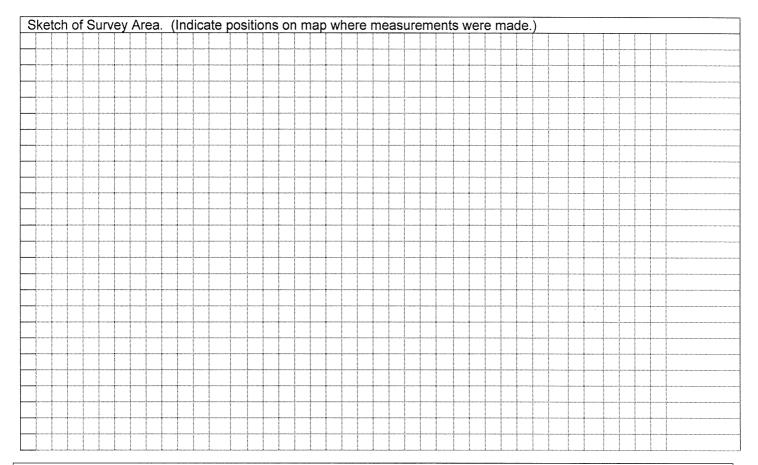
BNL Static Magnetic Fields Exposure Form

Part B: Field Strength Measurement Record

Continuation of Section III.

INDICATE WHERE READINGS WERE TAKEN IN THE TABLE BELOW AND ON THE SKETCH (GRID) BELOW. EQUIVALENT METHODS OF DOCUMENTATION CAN BE ATTACHED (E.G., PICTURE, PLAN VIEW WITH EXPOSURE LEVEL INDICATED)						
DISTANCE FROM SOURCE	LOCATION		READING	СОМ	MENTS	

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Forward the original form to the Static Magnetic Fields Subject Matter Expert, copies to your ES&H Coordinator and Facility Support Representative. Retain a copy in your files. Update and resubmit the assessment when changes occur.

FILE CODE: IH95SR. FORM IH-SMF (v1.0)



BNL Static Magnetic Fields Exposure Form

Part C: Employee Exposure Record

Employee Exposure Record				
DATE:	COMPLETED BY:			
I. AREA INFORMATION				
DEPT.:	BLDG.:	ROOM:		
SOURCE:				
NOTE: MEASUREMENTS OR CALCULATIONS IDENTIFY THE INDIVIDIUALS BELOW TO HAVE THE POTENTIAL FOR EXCEEDING REGULATORY EXPOSURES LEVELS.				
II. EMPLOYEE INFORMATION				
FIRST NAME:	LAST NAME:	BNL #:		
DEPT:	BLDG:	JOB TITLE:		
EXPOSURE DURATION (Hrs):	POSURE DURATION (Hrs): EXPOSURE (Times per Day):			
JOB/TASKS PERFORMED:				
Check all that apply: Exposure above BNL Exposure Limit MEDICAL ELECTRONIC DEVICE USER or FERROMAGNETIC PROSTHESIS & Exposure above 5 Gauss				
FIRST NAME:	LAST NAME:	BNL #:		
DEPT:	BLDG:	JOB TITLE:		
EXPOSURE DURATION (Hrs):	EXPOSURE (Times per Day):	EXPOSURE (Days per Yr):		
JOB/TASKS PERFORMED:				
Check all that apply: Exposure above BNL Exposure Limit MEDICAL ELECTRONIC DEVICE USER or FERROMAGNETIC PROSTHESIS & Exposure above 5 Gauss				
FIRST NAME:	LAST NAME:	BNL #:		
DEPT:	BLDG:	JOB TITLE:		
EXPOSURE DURATION (Hrs):	EXPOSURE (Times per Day):	EXPOSURE (Days per Yr):		
JOB/TASKS PERFORMED:				
Check all that apply: Exposure above BNL Exposure Limit MEDICAL ELECTRONIC DEVICE USER or FERROMAGNETIC PROSTHESIS & Exposure above 5 Gauss				

Forward the original form to the Static Magnetic Fields Subject Matter Expert, copies to the Occupational Medicine Clinic, your ES&H Coordinator, and Facility Support Representative. Retain a copy in your files. Update and resubmit the assessment when changes occur.